

- 31 -

ABSTRACT

A poured molten metal quantity control device includes a fixed plate brick having at least one pouring port, a collector nozzle brick, a slide plate brick sandwiched therebetween, an outer race mounted so as to be turned on the outer peripheral side of the fixed plate brick by an extendable unit, and a frame having the slide plate brick mounted thereon that is mounted on the outer race through a pivotal hinge so as to be capable of open and close operation, wherein the frame can be opened and closed by the pivotal hinge irrespectively of a turning means composed of the extendable unit as well as the outer race is turned by a crank mechanism using triangle points consisting of a support pivot P1, a center of turn P3, and a pivot P2, and the positions of the triangle points are defined such that the completely open/close positions of the pouring port are matched to the end point and the start point of the stroke of the extendable unit.